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"THE ASSOCIATION BETWEEN AGING AND BIOCHEMICAL-METABOLICAL INDEXES IN A RANDOM PERSONNEL SAMPLE OF HELLENIC AIR FORCE"

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INTRODUCTION-PURPOSE

The prolonged military operational stresses and the increased life expectancy may induce the appearance of several metabolic and cardiovascular disorders. The early diagnosis of these disorders could contribute to their prevention and effective management.

This study is a part of a long-term prospective investigation of association between aging and biochemical-metabolical indexes.

MATERIALS-METHODS

There was a random selection of 539 adults (519 men and 20 women). All of those were non-flying personnel of Hellenic Air Force, aging from 21 to 55 years old which were divided in 5-years groups and also in smokers and non-smokers groups.

The medical examination included a complete medical history and a full physical examination; blood pressure, anthropometric measurements and information about smoking, eating, physical activity, alcohol consumption were taken. Blood pressure was measured in a sitting position with a standard mercury sphygmomanometer with an 8X14 cm cuff. A 12-lead resting electrocardiogram (ECG) was performed.

A 15 cc blood sample was taken after 12-14 hours of fasting for the determination of the following parameters: lipidemic profile (total cholesterol, HDL, LDL, triglycerides, atheromatic index, apoA, apoB, Lp(a)), urea, creatinine, blood glucose, CRP, transaminases (SGOT, SGPT), fibrinogen, total bilirubin, potassium, sodium. For serum total cholesterol and HDL, the enzymatic colorimetric method was used. Also, BMI, systolic and diastolic arterial blood pressure, exercise levels, smoking and alcohol consumption were estimated.

All of the Hellenic Air Force non-flight personnel must pass every 2 years a complete medical examination

(as described above) as well as in areas of neurology, ENT, dental, ophthalmology and psychiatry.

Descriptive statistics were used to compile data. Linear regression analysis were used to examine the association of the following variables: age, smoking, exercise, alcohol consumption, BMI, lipidemic profile (total cholesterol, HDL, LDL, triglycerides, atheromatic index, apoA, apoB, Lp(a)), urea, creatinine, blood glucose, CRP, transaminases (SGOT, SGPT), fibrinogen, total bilirubin, potassium, sodium. For the analysis of the results, SPSS 8.0 was used

RESULTS

Age: The mean age of 539 adults was 33.55 years, standard deviation 7.55 and the 10th, 75th, 90th percentiles, were 24, 38, 44, respectively.

Smoking: We didn't find any statistical significant correlation between smoking and age **(TABLE 1a,b)**

Exercise: A *negative poor statistical significant association* between exercise and age, exercise and smokers, exercise and non-smokers was found. **(TABLE 2a,b)**

Alcohol: A *positive poor statistical significant association* between alcohol and age, alcohol and smokers, was found. We didn't find any statistical significant correlation between alcohol and non-smokers **(TABLE 3a,b)**

BMI: The mean value was 25.942(±3.403) kg/m² and the 10th, 75th and 90th percentiles were 22.526, 27.77, 29.83 kg/m² respectively. A *positive poor statistical significant association* between BMI and age, BMI and smokers, BMI and non-smokers was found. **(TABLE 4a,b)**

Total cholesterol/HDL: The mean value was 5.42 (± 1,52) and the 10th, 75th and 90th percentiles were 3.7, 6.23, 7.42 respectively. A *positive poor statistical significant association* between total cholesterol/HDL and age, total cholesterol/HDL and non-smokers and a

less positive statistical significant association between total cholesterol/HDL and smokers, was found. **(TABLE 5a,b)**

Total cholesterol: The mean value was 217.4 (± 50,48)mg% and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 155.9, 251, 283.2mg% respectively. A *less positive statistical significant association* between total cholesterol and age, total cholesterol and smokers total cholesterol and non-smokers, was found. **(TABLE 6a,b)**

Triglycerides: The mean value was 121(± 101.68) mg% and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 35, 154, 228 mg% respectively. A *positive poor statistical significant association* between triglycerides and age, triglycerides and smokers, triglycerides and non-smokers was found. **(TABLE 7a,b)**

HDL: The mean value was 41.17(± 7.69) mg% and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 32, 45, 51 mg% respectively. A *positive that trends to significance association* between HDL and age, HDL and non-smokers was found. We didn't find any statistical significant correlation between HDL and smokers. **(TABLE 8a,b)**

LDL: The mean value was 151.94(± 45.51) mg% and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 93.98, 178.9, 231.55mg% respectively. A *less positive statistical significant association* between LDL and age, LDL and smokers LDL and non-smokers, was found. **(TABLE 9a,b)**

apoA: The mean value was 1.38(± 0.22) g/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 1.11, 1.51, 1.66 g/l respectively. A *positive poor statistical significant association* between apoA and age, apoA and smokers and a *positive who trends to significance association* between apoA and non-smokers was found. **(TABLE 10a,b)**

apoB: The mean value was 1.12(± 0.30) g/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 0.74, 1.32, 1.52 g/l respectively. A *less positive statistical significant association* between apoB and age, apoB and smokers, apoB and non-smokers, was found. **(TABLE 11a,b)**

Lp(a): The mean value was 13.74(± 17.95) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 2.5, 15.48, 36.63 respectively. We didn't find any statistical significant correlation between Lp(a) and age, Lp(a) and smokers, Lp(a) and non-smokers. **(TABLE 12a,b)**

Fibrinogen: The mean value was 258.87(± 60.95) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 206, 282.25, 327.1 mg/dl respectively. A *positive poor statistical significant association* between fibrinogen and age, fibrinogen and smokers was found. We didn't find any statistical significant correlation between fibrinogen and non-smokers. **(TABLE 13a,b)**

SGOT: The mean value was 26.81(± 7.39) units/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 20, 29, 34.1 units/l respectively. We didn't find any statistical significant correlation between SGOT and age, SGOT and smokers, SGOT and non-smokers. **(TABLE 14a,b)**

SGPT: The mean value was 32.71(± 17.71) units/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 17.9, 39.25, 53 units/l respectively. We didn't find any statistical

significant correlation between SGPT and age, SGPT and smokers, SGPT and non-smokers. **(TABLE 15a,b)**

Total Bilirubin: The mean value was 0.69(± 0.386) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 0.3, 0.9, 1.2 mg/dl respectively. We didn't find any statistical significant correlation between bilirubin and age, bilirubin and smokers, bilirubin and non-smokers. **(TABLE 16a,b)**

Sodium: The mean value was 143.85(± 2.23) mEq/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 141, 145, 147 mEq/l respectively. We didn't find any statistical significant correlation between sodium and age, sodium and smokers, sodium and non-smokers. **(TABLE 17a,b)**

Potassium: The mean value was 4.395(±0.351) mEq/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 4, 4.6, 4.9 mEq/l respectively. A *positive poor statistical significant association* between potassium and smokers was found. We didn't find any statistical significant correlation between potassium and age, potassium and non-smokers. **(TABLE 18a,b)**

Urea: The mean value was 32.44(± 7.69) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 23, 37, 43 mg/dl respectively. A *positive strong ,which trends to significance, association* between urea and smokers was found. We didn't find any statistical significant correlation between urea and age, urea and non-smokers. **(TABLE 19a,b)**

Creatinine: The mean value was 0.937(± 0.155) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 0.8, 1, 1.1 mg/dl respectively. We didn't find any statistical significant correlation between creatinine and age, creatinine and smokers, creatinine and non-smokers. **(TABLE 20a,b)**

Glucose: The mean value was 87.61(± 10.11) mg/dl and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 76, 93, 101 mg/dl respectively. A *positive poor statistical significant association* between glucose and age, glucose and smokers, glucose and non-smokers was found. **(TABLE 21a,b)**

CRP: The mean value was 3.948(± 2.236) mg/l and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 3.2, 3.4, 5.4 mg/l respectively. We didn't find any statistical significant correlation between CRP and age, CRP and smokers, CRP and non-smokers. **(TABLE 22a,b)**

apoA to apoB: The mean value was 0.82442(± 0.2548) and the 10ᵗʰ, 75ᵗʰ and 90ᵗʰ percentiles were 0.52344, 0.97453, 1.17402 respectively. A *positive poor statistical significant association* between apoA to apoB and age, apoA to apoB and smokers, apoA to apoB and non-smokers was found. **(TABLE 23a,b)**

DISCUSSION

In our study, which is a part of a long- term prospective investigation of association between aging and biochemical-metabolical indexes, we examined a random sample of 539 adults (519 men and 20 women). All of those were non-flying personnel of Hellenic Air Force, aging from 21 to 55 years old.

The medical examination included a complete medical history and a full physical examination; blood pressure, anthropometric measurements and information about smoking, eating, physical activity, alcohol consumption were taken. A standard panel of laboratory tests for serum chemistries was performed, including some parameters like Lp(a), CRP, which are connecting with the presence of coronary heart disease.

The mean values of these parameters were the followings: **BMI:** 25,942(±3,403), **Total cholesterol/HDL:** 5,42(±1,52), **Total cholesterol:** 217,4(± 50,48) mg%, **Triglycerides:** 121(± 101,68) mg%, **HDL:** 41.17(± 7.69) mg%, **LDL:** 151.94(± 45.51) mg%, **apoA:** 1.38(± 0.22) g/l, **apoB:** 1.12(± 0.30) g/l, **Lp(a):** 13.74(± 17.95) mg/dl, **Fibrinogen:** 258.87(± 60.95) mg/dl, **SGOT:** 26.81(± 7.39) units/l, **SGPT:** 32.71(± 17.71) units/l, **Bilirubin:** 0.69(± 0.386) mg/dl, **Sodium:** 143.85(± 2.23) mEq/l, **Potassium:** 4.395(± 0.351) mEq/l, **Urea:** 32.44(± 7.69) mg/dl, **Creatinine:** 0.937(± 0.155) mg/dl, **Glucose:** 87.61(± 10.11) mg/dl, **CRP:** 3.948(± 2.236) mg/dl, **apoA to apoB:** 0.82442(± 0.2548)

Comparing our findings with those of a previous research concerning 1164 pilots of Hellenic Air Force, we found that there is a decline of HDL cholesterol regarding the non-flying personnel.

In our Aviation Center has been established annual tests for the operational employees (pilots, crewmembers, air traffic controllers etc.) and 2-year tests for the non-operational employees (desk officers, ground crewmembers etc.).

The medical examination includes a complete medical history, a full physical examination, as well as in areas of neurology, ENT, dental, ophthalmology and psychiatry; blood pressure and anthropometric measurements and information about smoking, eating, physical activity, alcohol consumption is taken.

The results are announced to both the individual and the Health Department and actions are taken when necessary.

When BMI is over 27, a nutritional and exercise schedule is provided from "the Department of Nutrition and Exercise" and a re-examination after 3-6 months (depending the degree of overweighting and the presence of others coronary risk factors) is arranged to estimate the results. If there is no amelioration, there is one more examination after 3-6 months following the provided schedule (whenever necessary changes are made) and then, the person is relieved from his duties until the weight-target is achieved. A few time ago, the above department started a program of measuring the body fat, so as to be more objective about his results.

Concerning serum total cholesterol, when it is >300 mg% without the presence of other risk factors for CHD, or >250 mg% when there are other risk factors, we begin dietary therapy for 3-6 months. If the levels of serum cholesterol remain high after an adequate trial of dietary therapy, then we begin drug therapy with bile acid-binding resins, like **cholestyramine** (Questran) to reach goal levels. There is a little time that a study has begun about the use of **pravastatin** as a first-line drug therapy.

CONCLUSIONS

The results of our study show a *positive statistical significant association* between alcohol (only for smokers), BMI, total cholesterol/HDL, total cholesterol, triglycerides, HDL (only for non-smokers), LDL, apoA, apoB, fibrinogen (only for smokers), potassium (only for smokers), urea (only for smokers), glucose and age. There is a *negative statistical significant association* between exercise and age. We didn't find *any statistical significant correlation* between Lp(a), SGOT, SGPT, bilirubin, sodium, creatinine, CRP and age.

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ATTACHEMENTS

TABLE 1a

REGRESSION

Correlations

		SMOKE	AGE
Pearson Correlation	SMOKE	1,000	0,029
	AGE	0,029	1,000
Sig. (1-tailed)	SMOKE	,	0,248
	AGE	0,248	,
N	SMOKE	539	539
	AGE	539	539

TABLE 1b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of smoking by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	0,47	0,50	5,21E-02	1	0	0	1	1
26-30	129	0,50	0,50	4,42E-02	1	0	0	1	1
31-35	95	0,45	0,50	5,13E-02	1	0	0	1	1
36-40	123	0,49	0,50	4,53E-02	1	0	0	1	1
41-45	56	0,61	0,49	6,59E-02	1	0	0	1	1
46-50	30	0,50	0,51	9,28E-02	1	0	0	1	1
51-55	13	0,50	0,52	0,15	1	0	0	1	1
Total	539	0,50	0,50	2,16E-02	1	0	0	1	1

TABLE 2a

REGRESSION

Correlations

		EXERCISE	AGE
Pearson Correlation	EXERCISE	1,000	-0,155
	AGE	-0,155	1,000
Sig. (1-tailed)	EXERCISE	,	0,000
	AGE	0,000	,
N	EXERCISE	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		EXERCISE	AGE
Pearson Correlation	EXERCISE	1,000	0,196
	AGE	0,196	1,000
Sig. (1-tailed)	EXERCISE	,	0,001
	AGE	0,001	,
N	EXERCISE	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		EXERCISE	AGE
Pearson Correlation	EXERCISE	1,000	-0,109
	AGE	-0,109	1,000
Sig. (1-tailed)	EXERCISE	,	0,036
	AGE	0,036	,
N	EXERCISE	271	271
	AGE	271	271

TABLE 2b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of exercise by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	2,5269	1,4491	0,1503	5	0	1	4	4,6
26-30	129	2,0155	1,5051	0,1325	5	0	0	3	4
31-35	95	1,8526	1,4438	0,1481	5	0	0	3	4
36-40	123	1,6179	1,3276	0,1197	5	0	0	2	4
41-45	56	1,6607	1,5407	0,2059	5	0	0	3	4
46-50	30	1,900	1,4468	0,2641	5	0	0	3,25	4
51-55	13	2,000	1,7581	0,5075	5	0	0	3,75	4,7
Non smokers	271	2,0037	1,4644	8,896E-02	5	0			
Smokers	268	1,8764	1,4879	9,106E-02	5	0			
Total	539	1,9405	1,4761	6,364E-02	5	0	0	3	4

TABLE 3a

REGRESSION

Correlations

		ALCOHOL	AGE
Pearson Correlation	ALCOHOL	1,000	0,079
	AGE	0,079	1,000
Sig. (1-tailed)	ALCOHOL	,	0,033
	AGE	0,033	,
N	ALCOHOL	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		ALCOHOL	AGE
Pearson Correlation	ALCOHOL	1,000	0,124
	AGE	0,124	1,000
Sig. (1-tailed)	ALCOHOL	,	0,022
	AGE	0,022	,
N	ALCOHOL	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		ALCOHOL	AGE
Pearson Correlation	ALCOHOL	1,000	0,022
	AGE	0,022	1,000
Sig. (1-tailed)	ALCOHOL	,	0,359
	AGE	0,359	,
N	ALCOHOL	271	271
	AGE	271	271

TABLE 3b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of alcohol by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	1,1613	0,8759	9,083E-02	3	0	0	2	2
26-30	129	1,1473	0,8848	7,790E-02	4	0	0	2	2
31-35	95	1,2526	0,9450	9,695E-02	4	0	0	2	2
36-40	123	1,1870	0,8994	8,110E-02	4	0	0	2	2
41-45	56	1,4286	0,9697	0,1296	3	0	0	2	3
46-50	30	1,5333	0,6814	0,1244	3	1	0	2	2,9
51-55	13	1,0833	0,9003	0,2599	3	0	0	1,75	2,7
Non smokers	271	1,0959	0,8509	5,169E-02	4	0			
Smokers	268	1,3596	0,9288	5,684E-02	4	0			
Total	539	1,2268	0,8993	3,877E-02	4	0	0	2	2

TABLE 4a

REGRESSION

Correlations

		BMI	AGE
Pearson Correlation	BMI	1,000	0,197
	AGE	0,197	1,000
Sig. (1-tailed)	BMI	,	0,000
	AGE	0,000	,
N	BMI	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		BMI	AGE
Pearson Correlation	BMI	1,000	0,211
	AGE	0,211	1,000
Sig. (1-tailed)	BMI	,	0,000
	AGE	0,000	,
N	BMI	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		BMI	AGE
Pearson Correlation	BMI	1,000	0,183
	AGE	0,183	1,000
Sig. (1-tailed)	BMI	,	0,001
	AGE	0,001	,
N	BMI	271	271
	AGE	271	271

TABLE 4b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of BMI by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	24,6732	2,722	0,282	35,8	18,7	21,782	25,88	27,724
26-30	129	25,7755	2,822	0,248	34,2	19,8	22,16	27,81	29,41
31-35	95	26,3435	3,532	0,362	38,1	16,8	22,22	28,14	31,04
36-40	123	25,8637	4,229	0,381	32,5	17,1	22,504	27,53	29,672
41-45	56	27,1941	2,998	0,401	39,3	22,8	24,011	28,8975	31,012
46-50	30	26,6243	3,11	0,568	33,2	20,3	22,807	28,96	31,095
51-55	13	27,6625	2,728	0,787	32,7	23,7	23,924	29,9275	32,001
Non Smokers	271	25,926	3,395	0,206	39,3	16,8			
Smokers	268	25,96	3,417	0,209	34,9	18,7			
Total	539	25,942	3,403	0,147	39,3	16,8	22,526	27,77	29,83

TABLE 5a

REGRESSION

Correlations

		Total chol/HDL	AGE
Pearson Correlation	Total chol/HDL	1,000	**0,269**
	AGE	0,269	1,000
Sig. (1-tailed)	Total chol/HDL	,	**0,000**
	AGE	0,000	,
N	Total chol/HDL	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		Total chol/HDL	AGE
Pearson Correlation	Total chol/HDL	1,000	**0,301**
	AGE	0,301	1,000
Sig. (1-tailed)	Total chol/HDL	,	**0,000**
	AGE	0,000	,
N	Total chol/HDL	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		Total chol/HDL	AGE
Pearson Correlation	Total chol/HDL	1,000	**0,228**
	AGE	0,228	1,000
Sig. (1-tailed)	Total chol/HDL	,	**0,000**
	AGE	0,000	,
N	Total chol/HDL	271	271
	AGE	271	271

TABLE 5b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of total cholesterol/HDL by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	4,66	1,33	0,14	8	2	3,312	5,33	6,602
26-30	129	5,18	1,41	0,12	11	2	3,57	5,79	7
31-35	95	5,53	1,5	0,15	9	3	3,85	6,39	7,574
36-40	123	5,78	1,57	0,14	11	3	3,97	6,61	7,726
41-45	56	6,06	1,6	0,21	12	3	4,428	6,985	8,629
46-50	30	5,75	1,24	0,23	8	3	4,21	6,94	7,3
51-55	13	5,73	1,54	0,44	8	3	3,528	7,075	8,085
Non Smokers	271	5,14	1,31	7,98E-02	9	2			
Smokers	268	5,72	1,66	0,1	12	3			
Total	539	5,42	1,52	6,57E-02	12	2	3,7	6,23	7,42

TABLE 6a
REGRESSION
Correlations

	Total cholesterol	AGE
Pearson Correlation **Total cholesterol**	1,000	**0,366**
AGE	0,366	1,000
Sig. (1-tailed) **Total cholesterol**	,	**0,000**
AGE	0,000	,
N **Total cholesterol**	539	539
AGE	539	539

.Selecting only cases for which Smoke= Smokers

	Total cholesterol	AGE
Pearson Correlation **Total cholesterol**	1,000	**0,391**
AGE	0,391	1,000
Sig. (1-tailed) **Total cholesterol**	,	**0,000**
AGE	0,000	,
N **Total cholesterol**	268	268
AGE	268	268

a.Selecting only cases for which Smoke= NonSmokers

	Total cholesterol	AGE
Pearson Correlation **Total cholesterol**	1,000	**0,337**
AGE	0,337	1,000
Sig. (1-tailed) **Total cholesterol**	,	**0,000**
AGE	0,000	,
N **Total cholesterol**	271	271
AGE	271	271

TABLE 6b
Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of total cholesterol by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	182,9	47,43	4,92	317	101	132	207,5	250,4
26-30	129	209,81	48,29	4,25	338	100	155	242,5	274
31-35	95	220,05	47,3	4,85	338	106	162,4	249	285
36-40	123	228,01	46,55	4,2	359	126	165	259	288
41-45	56	253,95	46,1	6,16	385	160	197,4	280,5	310,1
46-50	30	231,33	34,15	6,23	304	161	187	246,75	286,8
51-55	13	231,5	44,50	12,84	333	164	169,7	260,75	314,1
Non smokers	271	212,27	48,55	2,95	338	106			
Smokers	268	222,62	51,93	3,18	385	101			
Total	539	217,41	50,48	2,18	385	100	155,9	251	283,2

TABLE 7a
REGRESSION
Correlations

	Triglykerides	AGE
Pearson Correlation **Triglykerides**	1,000	**0,177**
AGE	0,177	1,000
Sig. (1-tailed) **Triglykerides**	,	**0,000**
AGE	0,000	,
N **Triglykerides**	539	539
AGE	539	539

Selecting only cases for which Smoke=Smokers

	Triglykerides	AGE
Pearson Correlation **Triglykerides**	1,000	**0,206**
AGE	0,206	1,000
Sig. (1-tailed) **Triglykerides**	,	**0,000**
AGE	0,000	,
N **Triglykerides**	268	268
AGE	268	268

Selecting only cases for which Smoke= Non Smokers

	Triglykerides	AGE
Pearson Correlation **Triglykerides**	1,000	**0,133**
AGE	0,133	1,000
Sig. (1-tailed) **Triglykerides**	,	**0,014**
AGE	0,014	,
N **Triglykerides**	271	271
AGE	271	271

TABLE 7b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of triglykerides by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	89,66	75,85	7,87	410	22	27,4	116,5	169,4
26-30	129	111,14	102,78	9,05	886	20	32	147	205
31-35	95	127,89	106,01	10,88	854	25	42,2	149	225,2
36-40	123	130,08	100,51	9,06	734	24	37,2	171	240
41-45	56	145,73	129,32	17,28	913	28	39,7	170,75	262,9
46-50	30	142,67	78,69	14,37	315	25	50	197,5	280,6
51-55	13	152,75	96,76	27,93	400	80	81,2	183,25	364,3
Non smokers	271	104,45	85,38	5,19	886	20			
Smokers	268	137,8	113,62	6,95	913	25			
Total	539	121,00	101,68	4,38	913	20	35	154	228

TABLE 8a

REGRESSION

Correlations

		HDL	AGE
Pearson Correlation	HDL	1,000	0,063
	AGE	0,063	1,000
Sig. (1-tailed)	HDL	,	0,072
	AGE	0,072	,
N	HDL	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		HDL	AGE
Pearson Correlation	HDL	1,000	0,048
	AGE	0,048	1,000
Sig. (1-tailed)	HDL	,	0,216
	AGE	0,216	,
N	HDL	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		HDL	AGE
Pearson Correlation	HDL	1,000	0,089
	AGE	0,089	1,000
Sig. (1-tailed)	HDL	,	0,073
	AGE	0,073	,
N	HDL	271	271
	AGE	271	271

TABLE 8b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of HDL by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	40,09	6,33	0,66	65	28	32,4	42	47
26-30	129	41,73	8,61	0,76	90	24	33	46	51
31-35	95	40,84	6,93	0,71	61	25	32,6	44	49
36-40	123	40,73	7,71	0,69	71	29	32	44	51
41-45	56	42,93	7,35	0,98	68	27	33,7	45,75	50,3
46-50	30	41,23	8,58	1,57	72	26	32,1	43	50
51-55	13	42,33	11,10	3,20	68	30	30,3	47,75	63,5
Non smokers	271	42,28	7,64	0,46	71	25			
Smokers	268	40,05	7,59	0,46	90	24			
Total	539	41,17	7,69	0,33	90	24	32,00	45,00	51,00

TABLE 9a

REGRESSION

Correlations

		LDL	AGE
Pearson Correlation	LDL	1,000	**0,312**
	AGE	0,312	1,000
Sig. (1-tailed)	LDL	,	**0,000**
	AGE	0,000	,
N	LDL	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		LDL	AGE
Pearson Correlation	LDL	1,000	**0,313**
	AGE	0,313	1,000
Sig. (1-tailed)	LDL	,	**0,000**
	AGE	0,000	,
N	LDL	268	268
	AGE	268	268

. Selecting only cases for which Smoke= Non Smokers

		LDL	AGE
Pearson Correlation	LDL	1,000	**0,309**
	AGE	0,309	1,000
Sig. (1-tailed)	LDL	,	**0,000**
	AGE	0,000	,
N	LDL	271	271
	AGE	271	271

TABLE 9b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of LDL by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	125,38	42,27	4,38	256	55	77,2	144,9	184,28
26-30	129	146,88	44,43	3,91	273	53	92	176,3	212,6
31-35	95	151,56	45,21	4,64	257	50	88,88	178,2	215,56
36-40	123	160,51	43,00	3,88	279	51	106,32	189,6	218,64
41-45	56	181,65	40,36	5,39	288	113	136,78	207,5	241,01
46-50	30	164,65	33,01	6,03	236	99	126,88	181,7	217,24
51-55	44,1413	156,95	46,42	13,4	263	80	88,46	176,25	241,68
Non smokers	271	149,74	44,14	2,68	273	53			
Smokers	268	154,18	46,84	2,87	288	51			
Total	539	151,94	45,51	1,96	288	50	93,98	178,9	213,55

TABLE 10a

REGRESSION

Correlations

		apoA	AGE
Pearson Correlation	apoA	1,000	**0,099**
	AGE	0,099	1,000
Sig. (1-tailed)	apoA	,	**0,011**
	AGE	0,011	,
N	apoA	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		apoA	AGE
Pearson Correlation	apoA	1,000	**0,128**
	AGE	0,128	1,000
Sig. (1-tailed)	apoA	,	**0,018**
	AGE	0,018	,
N	apoA	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		apoA	AGE
Pearson Correlation	apoA	1,000	**0,084**
	AGE	0,084	1,000
Sig. (1-tailed)	apoA	,	**0,084**
	AGE	0,084	,
N	apoA	271	271
	AGE	271	271

TABLE 10b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of apoA by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	1,35	0,20	2,06E-02	1,601	0,974	1,1162	1,4380	1,6288
26-30	129	1,36	0,20	1,80E-02	1,653	0,832	1,0880	1,4715	1,6210
31-35	95	1,40	0,22	2,22E-02	1,761	0,922	1,1014	1,5630	1,6530
36-40	123	1,38	0,22	2,03E-02	2,172	1,023	1,1090	1,4980	1,6770
41-45	56	1,43	0,28	3,71E-02	2,22	1,2	1,2221	1,5643	1,7779
46-50	30	1,41	0,25	4,48E-02	1,954	1,154	1,0596	1,5120	1,7514
51-55	13	1,44	0,20	5,70E-02	1,856	1,256	1,0973	1,6288	1,6744
Non smokers	271	1,42	0,23	1,41E-02	1,856	0,974			
Smokers	268	1,35	0,22	1,25E-02	2,22	0,832			
Total	539	1,38	0,22	9,56E-03	2,22	0,832	1,11	1,51	1,66

TABLE 11a

REGRESSION

Correlations

	apoB	AGE
Pearson Correlation apoB	1,000	**0,339**
AGE	0,339	1,000
Sig. (1-tailed) apoB	,	**0,000**
AGE	0,000	,
N apoB	539	539
AGE	539	539

Selecting only cases for which Smoke=Smokers

	apoB	AGE
Pearson Correlation apoB	1,000	**0,274**
AGE	0,274	1,000
Sig. (1-tailed) apoB	,	**0,000**
AGE	0,000	,
N apoB	268	268
AGE	268	268

Selecting only cases for which Smoke= Non Smokers

	apoB	AGE
Pearson Correlation apoB	1,000	**0,403**
AGE	0,403	1,000
Sig. (1-tailed) apoB	,	**0,000**
AGE	0,000	,
N apoB	271	271
AGE	271	271

TABLE 11b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of apoB by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	0,92	0,28	2,89E-02	1,451	0,605	0,6208	1,0695	1,2454
26-30	129	1,08	0,30	2,66E-02	1,437	0,742	0,7243	1,2760	1,4578
31-35	95	1,11	0,27	2,81E-02	1,478	0,703	0,7462	1,2890	1,5002
36-40	123	1,20	0,28	2,53E-02	1,481	0,653	0,8434	1,4280	1,5292
41-45	56	1,30	0,29	3,84E-02	1,954	0,795	1,0333	1,5175	1,6301
46-50	30	1,20	0,25	4,64E-02	1,652	0,438	0,7695	1,3378	1,5519
51-55	13	1,17	0,27	7,66E-02	1,730	0,42	0,8193	1,3880	1,5937
Non smokers	271	1,06	0,3	1,81E-02	1,481	0,406			
Smokers	268	1,17	0,3	1,83E-02	1,437	0,42			
Total	539	1,12	0,30	1,31E-02	1,437	0,406	0,74	1,32	1,52

TABLE 12a

REGRESSION

Correlations

		LP(a)	AGE
Pearson Correlation	LP(a)	1,000	-0,035
	AGE	-0,035	1,000
Sig. (1-tailed)	LP(a)	,	0,211
	AGE	0,211	,
N	LP(a)	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		LP(a)	AGE
Pearson Correlation	LP(a)	1,000	-0,022
	AGE	-0,022	1,000
Sig. (1-tailed)	LP(a)	,	0,357
	AGE	0,357	,
N	LP(a)	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		LP(a)	AGE
Pearson Correlation	LP(a)	1,000	-0,044
	AGE	-0,044	1,000
Sig. (1-tailed)	LP(a)	,	0,235
	AGE	0,235	,
N	LP(a)	271	271
	AGE	271	271

TABLE 12b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of LP(a) by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	15,32	19,75	2,05	102	1	2,5	19,4	46,9
26-30	129	12,58	16,89	1,49	97	1	2,5	14,4	36,3
31-35	95	15,54	19,22	1,97	116	1	2,5	22,9	39,2
36-40	123	13,22	18,39	1,66	128	2	2,5	14,8	31,42
41-45	56	13,88	17,04	2,28	106	1	2,5	16	33,26
46-50	30	10,46	13,80	2,52	70	3	2,5	11,45	30,45
51-55	13	12,44	13,58	3,92	50	3	2,5	18,53	41,44
Non smokers	271	14,57	18,2	1,11	116	1			
Smokers	268	12,89	17,69	1,08	128	1			
Total	539	13,74	17,95	0,77	128	1	2,5	15,48	36,63

TABLE 13a

REGRESSION

Correlations

		FIBRINOGEN	AGE
Pearson Correlation	FIBRINOGEN	1,000	0,132
	AGE	0,132	1,000
Sig. (1-tailed)	FIBRINOGEN	,	0,001
	AGE	0,001	,
N	FIBRINOGEN	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		FIBRINOGEN	AGE
Pearson Correlation	FIBRINOGEN	1,000	0,197
	AGE	0,197	1,000
Sig. (1-tailed)	FIBRINOGEN	,	0,001
	AGE	0,001	,
N	FIBRINOGEN	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		FIBRINOGEN	AGE
Pearson Correlation	FIBRINOGEN	1,000	0,045
	AGE	0,045	1,000
Sig. (1-tailed)	FIBRINOGEN	.,	0,228
	AGE	0,228	,
N	FIBRINOGEN	271	271
	AGE	271	271

TABLE 13b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of fibrinogen by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	243,22	53,8	5,58	488	170	199,4	265,5	310,2
26-30	129	256,85	60,83	5,36	507	171	206	281	329
31-35	95	253,26	54,56	5,60	460	173	207,8	281	323,4
36-40	123	269,81	73,18	6,60	632	181	210,4	302	353,58
41-45	56	269,38	54	7,22	460	177	218	289,75	322,7
46-50	30	265,97	50,67	9,25	375	171	218,6	309	361,4
51-55	13	267,17	58,07	16,76	383	185	192,8	305,5	370,7
Non smokers	271	249,14	54,15	3,29	461	173			
Smokers	268	268,74	65,79	4,03	632	170			
Total	539	258,87	60,95	2,63	632	170	206	282,25	327,1

TABLE 14a

REGRESSION

Correlations

		SGOT	AGE
Pearson Correlation	SGOT	1,000	-0,016
	AGE	-0,016	1,000
Sig. (1-tailed)	SGOT	,	0,355
	AGE	0,355	,
N	SGOT	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		SGOT	AGE
Pearson Correlation	SGOT	1,000	-0,030
	AGE	-0,030	1,000
Sig. (1-tailed)	SGOT	,	0,311
	AGE	0,311	,
N	SGOT	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		SGOT	AGE
Pearson Correlation	SGOT	1,000	0,001
	AGE	0,001	1,000
Sig. (1-tailed)	SGOT	,	0,492
	AGE	0,492	,
N	SGOT	271	271
	AGE	271	271

TABLE 14b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of SGOT by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	26,58	9,09	0,94	84	13	19	29	34
26-30	129	27	8,07	0,71	62	16	20	30	36
31-35	95	27,51	8,05	0,83	62	12	18	31	38,4
36-40	123	26,9	5,82	0,52	53	14	20,4	29	34,6
41-45	56	25,46	4,96	0,66	40	14	20	28	32,6
46-50	30	26,1	5,26	0,96	40	15	20,20	28,25	32,9
51-55	13	28,17	8,76	2,53	46	19	19,6	29	45,7
Non smokers	271	27,19	7,48	0,45	62	12			
Smokers	268	26,43	7,3	0,45	84	14			
Total	539	26,81	7,39	0,32	84	12	20	29	34,1

TABLE 15a

REGRESSION

Correlations

		SGPT	AGE
Pearson Correlation	SGPT	1,000	**-0,012**
	AGE	-0,012	1,000
Sig. (1-tailed)	SGPT	,	**0,386**
	AGE	0,386	,
N	SGPT	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		SGPT	AGE
Pearson Correlation	SGPT	1,000	**0,006**
	AGE	0,006	1,000
Sig. (1-tailed)	SGPT	,	**0,460**
	AGE	0,460	,
N	SGPT	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		SGPT	AGE
Pearson Correlation	SGPT	1,000	**-0,030**
	AGE	-0,030	1,000
Sig. (1-tailed)	SGPT	,	**0,311**
	AGE	0,311	,
N	SGPT	271	271
	AGE	271	271

TABLE 15b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of SGPT by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	30,89	20,67	2,14	144	11	17	34,5	51
26-30	129	33,01	18,81	1,66	111	10	16	39,5	54
31-35	95	37,15	20,36	2,09	105	11	17,6	49	69,8
36-40	123	32,59	14,29	1,29	95	14	19,4	40	46,6
41-45	56	29,55	11,62	1,55	69	12	17,4	34	43,6
46-50	30	30,90	16,64	3,04	97	16	18	31,5	51,8
51-55	13	28,92	11,41	3,29	56	16	16,6	34,5	52,1
Non smokers	271	32,76	18,46	1,12	131	10			
Smokers	268	32,66	16,96	1,04	144	11			
Total	539	32,71	17,71	0,76	144	10	17,9	39,25	53

TABLE 16a

REGRESSION

Correlations

		Total bilirubin	AGE
Pearson Correlation	total bilirubin	1,000	**0,005**
	AGE	0,005	1,000
Sig. (1-tailed)	total bilirubin	,	**0,455**
	AGE	0,455	,
N	total bilirubin	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		Total bilirubin	AGE
Pearson Correlation	total bilirubin	1,000	**0,039**
	AGE	0,039	1,000
Sig. (1-tailed)	total bilirubin	,	**0,264**
	AGE	0,264	,
N	total bilirubin	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		Total bilirubin	AGE
Pearson Correlation	total bilirubin	1,000	**-0,020**
	AGE	-0,020	1,000
Sig. (1-tailed)	total bilirubin	,	**0,370**
	AGE	0,370	,
N	total bilirubin	271	271
	AGE	271	271

TABLE 16b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of bilirubin by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	0,735	0,458	4,749E-02	2,9	0,1	0,4	0,9	1,16
26-30	129	0,681	0,406	3,578E-02	2,6	0,1	0,3	0,85	1,2
31-35	95	0,66	0,325	3,338E-02	1,7	0,1	0,3	0,9	1,1
36-40	123	0,67	0,398	3,584E-02	2,1	0,1	0,3	0,8	1,2
41-45	56	0,675	0,297	3,965E-02	1,6	0,1	0,37	0,8	1,03
46-50	30	0,747	0,316	5,768E-02	1,5	0,3	0,41	1	1,3
51-55	13	0,8	0,449	0,130	1,9	0,4	0,4	1	1,75
Non smokers	271	0,72	0,417	2,532E-02	2,9	0,1			
Smokers	268	0,659	0,351	2,15E-02	2,6	0,1			
Total	539	0,69	0,386	1,666E-03	2,9	0,1	0,3	0,9	1,2

TABLE 17a

REGRESSION

Correlations

		Na	AGE
Pearson Correlation	Na	1,000	-0,035
	AGE	-0,035	1,000
Sig. (1-tailed)	Na	,	0,212
	AGE	0,212	,
N	Na	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		Na	AGE
Pearson Correlation	Na	1,000	-0,015
	AGE	-0,015	1,000
Sig. (1-tailed)	Na	,	0,407
	AGE	0,407	,
N	Na	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		Na	AGE
Pearson Correlation	Na	1,000	-0,056
	AGE	-0,056	1,000
Sig. (1-tailed)	Na	,	0,181
	AGE	0,181	,
N	Na	271	271
	AGE	271	271

TABLE 17b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of sodium by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	144,09	1,84	0,19	149	140	142	145	146
26-30	129	143,88	2,26	0,20	151	139	141	145	147
31-35	95	143,65	2,11	0,22	148	138	140,6	145	146
36-40	123	143,93	2,32	0,21	149	137	141	146	147
41-45	56	143,59	2,66	0,36	150	136	140,7	145	147
46-50	30	143,70	2,53	0,46	150	139	141	145	147,9
51-55	13	144,17	1,70	0,49	147	141	141,3	145	146,7
Non smokers	271	143,8	2,28	0,14	151	137			
Smokers	268	143,9	2,18	0,13	151	138			
Total	539	143,85	2,23	9,60E-02	151	137	141	145	147

TABLE 18a

REGRESSION

Correlations

		K	AGE
Pearson Correlation	K	1,000	**0,055**
	AGE	0,055	1,000
Sig. (1-tailed)	K	,	**0,102**
	AGE	0,102	,
N	K	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		K	AGE
Pearson Correlation	K	1,000	**-0,022**
	AGE	-0,022	1,000
Sig. (1-tailed)	K	,	**0,357**
	AGE	0,357	,
N	K	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		K	AGE
Pearson Correlation	K	1,000	**0,101**
	AGE	0,101	1,000
Sig. (1-tailed)	K	,	**0,049**
	AGE	0,049	,
N	K	271	271
	AGE	271	271

TABLE 18b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of potassium by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	4,343	0,346	3,584E-02	5,3	3,6	3,94	4,6	4,86
26-30	129	4,413	0,357	3,143E-02	5,6	3,7	4	4,6	5
31-35	95	4,396	0,348	3,570E-02	5,1	3,7	4	4,6	4,9
36-40	123	4,410	0,362	3,266E-02	5,7	3,7	3,94	4,6	4,9
41-45	56	4,345	0,332	4,442E-02	5,2	3,7	4	4,5	4,83
46-50	30	4,443	0,309	5,646E-02	5,0	3,9	4,01	4,625	4,99
51-55	13	4,558	0,421	0,122	5,4	3,9	3,99	4,85	5,31
Non smokers	271	4,341	0,35	2,129E-02	5,4	3,6			
Smokers	268	4,449	0,345	2,11E-02	5,7	3,7			
Total	539	4,395	0,351	1,515E-02	5,7	3,6	4	4,6	4,9

TABLE 19a

REGRESSION

Correlations

		UREA	AGE
Pearson Correlation	UREA	1,000	**0,053**
	AGE	0,053	1,000
Sig. (1-tailed)	UREA	,	**0,108**
	AGE	0,108	,
N	UREA	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		UREA	AGE
Pearson Correlation	UREA	1,000	**0,091**
	AGE	0,091	1,000
Sig. (1-tailed)	UREA	,	**0,069**
	AGE	0,069	,
N	UREA	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		UREA	AGE
Pearson Correlation	UREA	1,000	**0,016**
	AGE	0,016	1,000
Sig. (1-tailed)	UREA	,	**0,395**
	AGE	0,395	,
N	UREA	271	271
	AGE	271	271

TABLE 19b
Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of urea by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	33,30	6,75	0,70	53	18	25	36,5	42,5
26-30	129	31,14	7,18	0,63	51	14	22	35	42
31-35	95	32,43	7,46	0,77	53	18	22	37	44,4
36-40	123	32,46	7,64	0,69	53	10	24	37	43
41-45	56	32,82	8,35	1,12	58	15	21,7	37,75	45
46-50	30	33,13	9,23	169	63	21	23	38	43,5
51-55	13	36,25	12,79	3,69	70	23	23,3	38,5	63,7
Non smokers	271	32,63	7,71	0,47	63	10			
Smokers	268	32,26	7,67	0,47	70	15			
Total	539	32,44	7,69	0,33	70	10	23	37	43

TABLE 20a

REGRESSION

Correlations

		CREATININE	AGE
Pearson Correlation	**CREATININE**	1,000	**-0,008**
	AGE	-0,008	1,000
Sig. (1-tailed)	**CREATININE**	,	**0,423**
	AGE	0,423	,
N	**CREATININE**	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		CREATININE	AGE
Pearson Correlation	**CREATININE**	1,000	**-0,015**
	AGE	-0,015	1,000
Sig. (1-tailed)	**CREATININE**	,	**0,405**
	AGE	0,405	,
N	**CREATININE**	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		CREATININE	AGE
Pearson Correlation	**CREATININE**	1,000	**-0,003**
	AGE	-0,003	1,000
Sig. (1-tailed)	**CREATININE**	,	**0,478**
	AGE	0,478	,
N	**CREATININE**	271	271
	AGE	271	271

TABLE 20b
Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of creatinine by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	0,939	0,150	1,559E-02	1,3	0,2	0,8	1	1,1
26-30	129	0,941	0,142	1,253E-02	1,3	0,5	0,8	1	1,1
31-35	95	0,935	0,19	1,524E-02	1,4	0,4	0,8	1	1,1
36-40	123	0,932	0,159	1,434E-02	1,5	0,6	0,7	1	1,1
41-45	56	0,950	0,189	2,523E-02	1,9	0,6	0,8	1	1,1
46-50	30	0,923	0,136	2,523E-02	1,3	0,7	0,8	1	1,1
51-55	13	0,925	0,218	6,292E-02	1,2	0,4	0,49	1,1	1,17
Non smokers	271	0,934	0,162	9,816E-02	1,5	0,2			
Smokers	268	0,94	0,148	9,067E-02	1,9	0,6			
Total	539	0,937	0,155	6,681E-03	1,9	0,2	0,8	1	1,1

TABLE 21a

REGRESSION

Correlations

		GLUCOSE	AGE
Pearson Correlation	GLUCOSE	1,000	**0,200**
	AGE	0,200	1,000
Sig. (1-tailed)	GLUCOSE	,	**0,000**
	AGE	0,000	,
N	GLUCOSE	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		GLUCOSE	AGE
Pearson Correlation	GLUCOSE	1,000	**0,248**
	AGE	0,248	1,000
Sig. (1-tailed)	GLUCOSE	,	**0,000**
	AGE	0,000	,
N	GLUCOSE	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		GLUCOSE	AGE
Pearson Correlation	GLUCOSE	1,000	**0,145**
	AGE	0,145	1,000
Sig. (1-tailed)	GLUCOSE	,	**0,008**
	AGE	0,008	,
N	GLUCOSE	271	271
	AGE	271	271

TABLE 21b

Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of glucose by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	85,33	9,34	0,97	108	69	73	92	100,2
26-30	129	86,67	10,22	0,90	130	47	75	92	98
31-35	95	87,17	9,57	0,98	112	62	76,6	92	102,4
36-40	123	87,36	8,69	0,78	117	64	78	92	98,6
41-45	56	90,79	9,12	1,22	121	76	78,7	96,75	101,3
46-50	30	92,83	15,06	2,75	156	71	76,2	97	105
51-55	13	93,75	13,55	3,91	119	76	77,2	99	118,1
Non smokers	271	88,14	9,04	0,55	130	65			
Smokers	268	87,09	11,08	0,68	156	47			
Total	539	87,61	10,11	0,44	156	47	76	93	101

TABLE 22a

REGRESSION

Correlations

		CRP	AGE
Pearson Correlation	CRP	1,000	**0,053**
	AGE	0,053	1,000
Sig. (1-tailed)	CRP	,	**0,108**
	AGE	0,108	,
N	CRP	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		CRP	AGE
Pearson Correlation	CRP	1,000	**0,054**
	AGE	0,054	1,000
Sig. (1-tailed)	CRP	,	**0,190**
	AGE	0,190	,
N	CRP	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		CRP	AGE
Pearson Correlation	CRP	1,000	**0,052**
	AGE	0,052	1,000
Sig. (1-tailed)	CRP	,	**0,199**
	AGE	0,199	,
N	CRP	271	271
	AGE	271	271

TABLE 22b
Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of CRP by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	3,770	2,475	0,257	20,7	1,0	3,2	3,4	3,4
26-30	129	3,871	1,606	0,141	13,9	2,0	3,2	3,4	5,4
31-35	95	4,052	2,635	0,270	23,2	1,0	3,2	3,4	6,04
36-40	123	3,930	2,431	0,219	27,1	3,2	3,2	3,4	5,16
41-45	56	4,080	2,193	0,293	12,6	1,1	3,2	3,4	7,41
46-50	30	4,393	2,065	0,377	9,3	3,2	3,2	4	9,15
51-55	13	3,800	1,205	0,348	7,4	3,2	3,2	3,925	6,53
Non smokers	271	3,87	2,417	0,147	27,1	1			
Smokers	268	4,028	2,037	0,125	20,7	1			
Total	539	3,948	2,236	9,638E-02	27,1	1,0	3,2	3,4	5,4

TABLE 23a

REGRESSION

Correlations

		apoB to apoA	AGE
Pearson Correlation	apoB to apoA	1,000	0,244
	AGE	0,244	1,000
Sig. (1-tailed)	apoB to apoA	,	0,000
	AGE	0,000	,
N	apoB to apoA	539	539
	AGE	539	539

Selecting only cases for which Smoke=Smokers

		apoB to apoA	AGE
Pearson Correlation	apoB to apoA	1,000	0,285
	AGE	0,285	1,000
Sig. (1-tailed)	apoB to apoA	,	0,000
	AGE	0,000	,
N	apoB to apoA	268	268
	AGE	268	268

Selecting only cases for which Smoke= Non Smokers

		apoB to apoA	AGE
Pearson Correlation	apoB to apoA	1,000	0,196
	AGE	0,196	1,000
Sig. (1-tailed)	apoB to apoA	,	0,001
	AGE	0,001	,
N	apoB to apoA	271	271
	AGE	271	271

TABLE 23b
Means, standard deviations (SD), standard errors (SEE), Maximum and Minimum values, 10th, 75th, and 90th percentiles of apoA to apoB by five-year age groups

Age groups (years)	Total no	Means	SD	SEE	Max. value	Min. value	10th	75th	90th
21-25	93	0,69509	0,22687	2,353E-02	1,426	0,162	0,4512	0,8244	0,9652
26-30	129	0,81203	0,26140	2,301E-02	1,789	0,287	0,5240	0,9689	1,1738
31-35	95	0,80725	0,22891	2,349E-02	1,462	0,301	0,4896	0,9735	1,0738
36-40	123	0,89852	0,26071	2,351E-02	1,840	0,374	0,5781	1,0780	1,2136
41-45	56	0,91213	0,26397	3,527E-02	1,466	0,170	0,6687	1,1350	1,3192
46-50	30	0,86579	0,20302	3,707E-02	1,226	0,398	0,5827	0,9856	1,1521
51-55	13	0,82360	0,18471	5,332E-02	1,184	0,589	0,5995	0,9311	1,1504
Non smokers	271	0,76162	0,22957	1,395E-02	1,509	0,162			
Smokers	268	0,88816	0,26358	1613E-02	1,840	0,319			
Total	539	0,82442	0,25480	1,099E-02	1,840	0,162	0,52344	0,97453	1,17402